

Contents of *Animal Feed Science and Technology*, Volume 40

VOL. 40 NO. 1

DECEMBER 1992

| | |
|---|----|
| Comparisons of methods for estimating <i>in vivo</i> digestibility of feedstuffs in dairy cattle C.R. Stockdale (Kyabram, Vic., Australia) and S. Rathbone (Bundoora, Vic., Australia) | 1 |
| Evaluation of spent bleaching and filtering clay — a bentonite product from palm oil refining as a potential feed ingredient in layer diets S.S. Al-Zubaidy (Basrah, Iraq) | 13 |
| <i>Salicornia bigelovii</i> Torr.: a seawater-irrigated forage for goats E.P. Glenn, W.E. Coates, J.J. Riley, R.O. Kuehl and R.S. Swingle (Tucson, AZ, USA) | 21 |
| Effects of level of inclusion of copra meal in balanced diets supplemented with synthetic amino acids on growth and fat deposition and composition in growing pigs fed <i>ad libitum</i> at a constant temperature of 25°C P.J. Thorne, J. Wiseman, D.J.A. Cole (Loughborough, UK) and D.H. Machin (Chatham Maritime, UK) | 31 |
| Effects of ingestive and ruminative mastication on digestion of forage by cattle K.A. Beauchemin (Lethbridge, Alta., Canada) | 41 |
| <i>In vitro</i> and <i>in sacco</i> methods for the estimation of dietary nitrogen degradability in the rumen: a review B. Michalet-Doreau and M.Y. Ould-Bah (St. Genès Champanell, France) | 57 |
| Short Communication | |
| Reproductive performance of dwarf breeder pullets fed yellow peas (<i>Pisum sativum</i> L. var. 'Miranda') D.R. Kill and T.F. Savage (Corvallis, OR, USA) | 87 |

VOL. 40 NOS. 2-3

JANUARY 1993

| | |
|---|-----|
| Effects of four cereal grains on intake and ruminal digestion of harvested forage by beef steers E.L. Fredrickson, M.L. Galyean, R.G. Betty and A.U. Cheema (Las Cruces, NM, USA) | 93 |
| Comparison of <i>in vitro</i> gas production and nylon bag degradability of roughages in predicting feed intake in cattle M. Blümmel and E.R. Ørskov (Aberdeen, UK) | 109 |
| The upgrading of wheat straw by alkaline hydrogen peroxide treatment: The effect of NaOH and H ₂ O ₂ on the site and extent of digestion in sheep R. Meeske (Irene, South Africa), H.H. Meissner (Pretoria, South Africa) and J.P. Pienaar (Irene, South Africa) | 121 |
| Chemical and nutritional evaluation of soya protein preparations as primary nitrogen sources for rainbow trout (<i>Oncorhynchus mykiss</i>) G.L. Rumsey, S.G. Hughes and R.A. Winfree (Cortland, NY, USA) | 135 |
| Processing of slaughterhouse blood and poultry litter and the effects on nutrient digestibility by steers O.A. Ayangbile, S.K. Tallam and M.S. Surtan (Njoro, Kenya) | 153 |

| | |
|---|-----|
| The effect of maize grain supplementation of diets based on wheat straw and poultry litter on their utilization by beef cattle | |
| A. Brosh, Z. Holzer, D. Levy and Y. Aharoni (Haifa Post, Israel)..... | 165 |
| Influence of urea feeding duration on nitrogen metabolism of rumen bacteria and their host sheep | |
| Y. Kobayashi, M. Wakita and S. Hoshino (Tsu, Mie, Japan) | 177 |
| In sacco degradation of dry matter and nitrogen in oven dried and fresh tropical grasses and some relationships to in vitro dry matter digestibility | |
| J.D. Kabuga and C.A. Darko (Kumasi, Ghana) | 191 |
| Effects of gaseous ammonia on chemical and structural features of cell walls in spring barley straw | |
| M. Goto, Y. Yokoe (Tsu, Japan), K. Takabe (Kyoto, Japan), S. Nisikawa and O. Morita (Tsu, Japan) | 207 |
| In vivo apparent digestibility and in vitro solubilization—the influence of pig live weight and diet | |
| W. Löwgren (Uppsala, Sweden), H. Graham (Marlborough, Wiltshire, UK) and P. Åman (Uppsala, Sweden) | 223 |
| The growth of broiler chickens as affected by the replacement of graded levels of maize by sweet potato leaves (<i>Ipomoea batatas</i>) or Ndole (<i>Vernonia</i> spp.) in the finisher diet | |
| A. Teguia, J. Tchoumboue, B.T. Mayaka and C.M. Tankou (Dschang, Cameroon) | 233 |
| Wilted tagasaste (<i>Chamaecytisus palmensis</i>) forage as a replacement for a concentrate supplement for lactating crossbred Friesian × Zebu (Boran) dairy cows fed low-quality native hay | |
| T. Varvikko and H. Khalili (Addis Ababa, Ethiopia) | 239 |
| Application of an inhibitor in vitro method for estimating rumen degradation of feed protein | |
| S.A. Neutze, R.L. Smith and W.A. Forbes (Camden, N.S.W., Australia) | 251 |

Short Communication

| | |
|---|-----|
| Evaluation of cocoa-pod husks on performance of rabbits | |
| B.H. Ridzwan, M.K. Fadzli, M.B.O. Rozali, D.T.F. Chin, B.M. Ibrahim and B.I. Faridnordin (Kota Kinabalu, Sabah, Malaysia) | 267 |

VOL. 40 NO. 4

FEBRUARY 1993

| | |
|--|-----|
| Grass and lupin silage in rations for beef steers supplemented with barley or potatoes | |
| S.R. Murphy, M.A. McNiven, J.A. MacLeod and L.J. Halliday (Charlottetown, P.E.I., Canada) | 273 |
| Disappearance of protein supplements and their fractions in sacco | |
| M. Wadhwa, G.S. Makkar and J.S. Ichhponani (Ludhiana, India) | 285 |
| Selenium supplements for grazing sheep 3. Development of an intra-ruminal pellet with an extended life | |
| G.E. Donald, J.P. Langlands, J.E. Bowles, A.J. Smith and G.L. Burke (Armidale, N.S.W., Australia) | 295 |
| An in vitro assessment of several enzymes for the supplementation of rabbit diets | |
| B. Yu and H.Y. Tsen (Taichung, Taiwan, ROC) | 309 |
| Dry matter disappearance and gelatinization of grains as influenced by processing and conditioning | |
| K.J. Malcolm (Clayton, NM, USA) and H.E. Kiesling (Las Cruces, NM, USA) | 321 |
| The influence of ageing on cell wall composition and degradability of three maize genotypes | |
| J.W. Cone and F.M. Engels (Wageningen, Netherlands) | 331 |
| Comparative studies on the degradation and mean retention time of solid and liquid phases in the forestomachs of dromedaries and sheep fed on low-quality roughages from Tunisia | |

| | |
|---|-----|
| C. Kayouli (Tunis, Tunisia), J.P. Jouany (Saint-Genès Champanelle, France), D.I. Demeyer (Melle, Belgium), Ali-Ali, H. Taoueb (Tunis, Tunisia) and C. Dardillat (Saint-Genès Champanelle, France) | 343 |
| Author Index | 357 |
| Contents of <i>Animal Feed Science and Technology</i>, Volume 40 | 361 |